

Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246



# Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO041406	MES002-VC	1	1	Net 60	M304TS0.750W.049	304 Sq Tube .75X.75X.049W : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft				500	10/29/2018	500		S121679	Stock	10/25/2018	\$ 3.80 / ft	0		\$1,900.00	Metaux Solutions	
		2			M304B0.250x0.500	304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				200		208		S121680	Stock	10/25/2018	\$ 4.05 / pcs	0		\$842.84	Metaux Solutions	
Total:										700			708								\$2,105.05	

Plex 10/25/2018 4:20 PM dart.Tollis Andrew



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO041406**

**Supplier:** MES002-VC  
Metaux Solutions  
2625 boul Jacques-Cartier Est  
Longueuil  
QC  
J4N 1L7 Canada  
Phone: 800 558 8858  
Fax: 514 633 8044

**PO No:** PO041406

**PO Date:** 10/22/18

**Due Date:** 10/29/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
23 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 AK		M304TS0.750W.049		304 Sq Tube .75X.75X.049W : MATERIAL: AISI 304/316 SEAMLESS STAINLESS STEEL SQUARE TUBING AS PER ASTM A554 MILL FINISH OR ASTM A269 MILL FINISH receive ft	Firmed	-	10/29/18	500 ft ✓	0 ft 500ft	500 ft	\$3.80/ft	\$1,900.00 M 18/10/25
2 AK		M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	10/29/18	200 pcs ✓	0 pcs 208ft	200 pcs	\$4.0521/pcs	\$810.42 M 18/10/25

**Grand Total: \$2,710.42**



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO041406

### Order Notes

#### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

A handwritten signature in black ink, appearing to be "CL" or similar, enclosed within a large, loopy oval.

Plex 10/22/18 10:35 AM dart.lavoie.chantal

## Shipping Order

25/10/2018

METAUX SOLUTIONS INC  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL, QUEBEC  
J4N 1L7  
Tel.: 450 641-3330

Order : 139111  
Reference : 41406  
Ship : PICK UP / PICK UP

Customer: 6323336

## Ship To

DART AEROSPACE LTD  
1270, ABERDEEN STREET  
HAWKESBURY, ONTARIO  
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SSQT34340494	304 SQ TUBE .750 X .049 WALL 25 x 20' ***** ht;9H855	500	500	0
SF14124HR	304 STAIN FLA .25" X .500" HR 16 x 13' ht;67736108	208	208	0

ship journey collect  
jp

Shipping : \_\_\_\_\_

Package No : \_\_\_\_\_

Merchandise Received: \_\_\_\_\_

Ref. : \_\_\_\_\_



KINGMAKER STEEL CO., INC  
133 BELMONT DRIVE  
SOMERSET, NJ 08873  
Tel.: 732-302-1800  
Fax: 732-302-1822  
www.KingmakerSteel.com

SOLD TO

SHIP TO

# Material Certification

ISO 9001:2015  
ISO 14001:2004  
EN 10204/3.1B

Order	202075-001
PO#	P010564
Date	7/11/2018
Page	1 of 1

Item No.	Description (Form, Size, Finish)	Spec (ASTM)	Grade	Finish	Country of Origin	Heat No.	Chemical Composition (%)										Mechanical Properties						
							C	Si	Mn	P	S	Cr	Ni	Mo	N	Cu	Tensile (N/mm)	Yield (N/mm)	Elongation (%)	Hardness HRB	Flattening Test	Hydrostatic Test (Mpa)	Eddy Current
1	SQ. 3/4" X 0.045" W X 20' MF -304L	A554-16	304/L	MF	VNM	9H855	.015	.430	1.10	.035	.003	18.21	8.07				668.00	352.00	46.00	89.50			

1 of 1

9

Specifications

ASTM A554 - Stainless Steel T.I.G. Welded Tubing

ASTM A266 - Stainless Steel T.I.G. Welded Tubing

Finish

MF = Mill Finish

Country Code

USA = United States

Specifications: ASTM A554 = Stainless Steel T.I.G. Welded Tubing  
ASTM A358 = Stainless Steel T.I.G. Welded Tubing  
ASTM A312 = Stainless Steel T.I.G. Welded Pipe  
ASTM A240/480 = Stainless Steel S/E Flat Bars

Finish: MF = Mill Finish  
###G = ### Grit Polished  
A&P = Annealed and Pickled

Country Code: USA = United States  
TWN = Taiwan  
VNM = Vietnam

WE HEREBY CERTIFY THAT TO THE BEST OF OUR KNOWLEDGE, THE MATERIAL LISTED ABOVE HAS BEEN MANUFACTURED IN ACCORDANCE WITH AND MEET THE ABOVE APPLICABLE SPECIFICATIONS AND GRADES, AND ALSO THAT THE MATERIAL WAS PRODUCED IN A MERCURY FREE ENVIRONMENT. THE CHEMICAL COMPOSITIONS OF THE MATERIAL ARE IN ACCORDANCE WITH ASTM A278 AND ASTM A479 - CHEMISTRY ONLY.

8 7 6 5 4 3 2 1

D

C

B

A



PURCHASE MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBING


FINISH: ASTM A554 MILL FINISH  
OR ASTM A269 MILL FINISH

WHERE: A.AAA = WIDTH IN INCHES  
.TTT = WALL THICKNESS IN INCHES

PART NUMBER: M304TS | A.AAA | W | TTT |  
| WIDTH | WALL |

PART NUMBER: EG. 0.75" X 0.75" X 0.049 WALL = M304TS0.750W.049

RELEASED  
2014-05-26

D	"SEAMLESS" REMOVED FROM PURCHASE MATERIAL SPECIFICATION (SEE NCR14-3818)			DB	14.06.20
C	"SEAMLESS" ADDED TO PURCHASE MATERIAL. ASTM A269 ADDED TO FINISH. REASON: SPEC ADDED FOR 1/2" TUBING			AJS	06.10.16
B	DRAWING MOVED TO "B" SIZE BORDER. FINISH ADDED (SEE NCR 08-045 FOR DETAILS).			AJS	06.08.28
A	NEW ISSUE			DS	01.06.08
REV.	DESCRIPTION			BY	DATE
DESIGN		DS	DART AEROSPACE LTD		
DRAWN		DB	HAWKESBURY, ONTARIO, CANADA		
CHECKED			DRAWING NO.		
MFG. APPR			M304TS		
APPROVED			TITLE		
DE APPR.			304/316 SQUARE TUBING		
DATE	14.05.20		SCALE		
			NONE		
COPYRIGHT © 2001 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.					

8 7 6 5 4 3 2 1



## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304TS 0.750W. 049

PO / BATCH NO.: P0041406 / S121679

DATE: 18/10/25

MATERIAL CERT REC'D: 161

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 500ft

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 500ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	ASTM A554
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N	ATT: 9H855
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/10/25</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**BOLLINGHAUS**  
**STEEL**Bollinghaus Steel, SA  
DIN EN ISO 9001:2008  
TÜV CERT No. 01 100 030458

Abnahmeprüfzeugnis / Mill Test Certificate / Certif. de Qualidade

EN 10204:2004 / 3.1

No.: / Nr.: / No.:

0000136628

Unsere Innere Verweisung / Our Int. Ref. / N.º ref. Int.

Datum / Date / Data

5800038278 000010

19.12.2017

## Spezifikation / Standards / Normas

TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A276/A276M-16a, ASTM A182/A182M-16a, ASTM A193/A193M-16, ASTM A479/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-783D, AMS 5636J, AMS 5947K, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.

Kunde / Customer / Cliente

Endgültiger Kunde / Final Customer / Cliente Final

Bestell Nr./Order Nr./Enc.Nr. c110766

Bestell Nr./Order Nr./Enc.Nr. c110766.1

Produktgruppe / Product Group / Grupo Produto

Gewicht / Weight / Peso

Bunde / Bundle / Atados

AISI 304L FLAT 1/4 X 1/2"

1.059 lb

01

Werkstoff-Nr.  
Material-no.  
Qualidade

1.4307

Werkstoff-Normbezeichnung / Material standard grade / Norma do material

X 2 CrNi 18-9

## Beschreibung / Description / Descrição

Stainless steel flat bars, hot rolled, heat treated, straightened and pickled  
US DFAR 252.225-7009: MELT SOURCE: France / MFG: Portugal.Schmelzen Nr.  
Cast nr. / Fusão nr.

67736108

## Chemische Analyse in % / Chemical composition in % / Análise química em %

EAF+AOD

C

0.018

Si

0.525

Mn

1.164

P

0.029

S

0.025

Cr

18.127

Ni

8.045

Mo

0.378

Co

0.117

Cu

0.406

N

0.080

Ti

0.002

-

-

-

-

Proben Nr.  
Test no.  
Amostra no.

ASTM E399

Kerbschlagarbeit

Impact Test

Resistência

{Charpy V}

{J}

Streckgrenze

Yield point

Tensão limite

Rp 0,2 %

{Ksi}

Dehngrenze

1% point

Limite de extensão

Rp 1,0 %

{Ksi}

ASTM A370

Zugfestigkeit

Tensile strength

Tensão de rotura

Rm

{Ksi}

Dehnung

Elongation

Alongamento

A5

4D

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Visuelle Kontrolle  
Visual inspection  
Inspeção visual☒

Ok

ASTM E10

Härte

Hardness

Dureza

195

{HB}

ASTM A262 Practice E

Korrosionsbeständigkeit

IC Test

Corrosão Intermetálica

OK

Abnahmebeauftragter

Authorized inspection Representative

Inspector de Qualidade

396

Vasco Ferreira (Q. VF)

Wärmebehandlung

Heat treatment

Tratamento térmico

Annealed/Quenched 1900 °F (1050 °C)

{water quenched}

ASTM A484

Maßkontrolle

Dimensional inspection

Inspeção dimensional

☒

Ok

ASTM E112

Korngröße

Grain size

Tamanho de grão

9

Mikroskopische Untersuchung

Macrographic test

História livre from

segregation defects.

☒

Ok

Verwechslungsprüfung

Test of identity

Teste de identificação

☒

Ok

Bemerkungen / Remarks / Observações

Country of origin: Portugal. No weld repair done.  
Material is free of mercury and radiation contamination.

Bollinghaus Steel, SA

Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.  
We confirm that this material meets the specification according the mentioned standards.  
Confirmamos que este material respeita as especificações de acordo com as normas referidas.

079806



# SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE  
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240  
PART NUMBER: M304B | T.TTT | X | WW.WWWW |  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
AND "WW.WWWW" = WIDTH IN INCHES

△ EG. 0.5" x 3.0" BAR = M304B0.500X03.000  
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000

RELEASED  
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS, AND EG.: CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. AUTO SPECS (ZN D6-1). REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.08.10
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR			
DATE	10.11.25		

DART AEROSPACE LTD	
HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	REV. C
M304B	SHEET 1 OF 1
TITLE	SCALE
304/316 BAR/PLATE	NTS
COPYRIGHT © 2008 BY DART AEROSPACE LTD	
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN.	

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT304B0.250 x 0.500  
 DATE: 18/10/25

PO / BATCH NO.: P0041406 / S121680

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 208 Lf  
 QUANTITY INSPECTED: 208 Lf  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250"  
 THICKNESS RECEIVED: 0.280"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM A276
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	MT: 67736108
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/10/25</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in